



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Jade Carbon Shine

version number GHS 1.0.

Date of compilation. 2022-03-04.

SECTION 1: Identification

- 1.1 Product identifier**
Trade name Jade Carbon Shine
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Relevant identified uses General use
HS code 3404.90.00.
- 1.3 Details of the supplier of the safety data sheet**
B&B Blending, LLC
10963 Leroy Drive
Northglenn
CO 80233
United States

telephone
1.800.875.6320, 1.303.289.6320
e-mail: info@bbblending.com
website
bbblending.com
e-mail (competent person) Btirrell@bbblending.com
- 1.4 Emergency telephone number**
Emergency information service USA 1.800.535.5053, INTL 1.352.323.3500
24 hour emergency number

SECTION 2: Hazard(s) identification

- 2.1 Classification of the substance or mixture**
Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

| Section | Hazard class | Cat-egory | Hazard class and category | Hazard statement |
|---------|-----------------------------------|-----------|---------------------------|------------------|
| A.3 | Serious eye damage/eye irritation | 2 | Eye Irrit. 2 | H319 |

For full text of abbreviations: see SECTION 16

- 2.2 Label elements**
Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Signal word Warning

Pictograms

GHS07



Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

- 2.3 Other hazards**

of no significance



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SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture).

3.2 Mixtures

Description of the mixture

| Hazardous ingredients acc. to GHS | | | | |
|---|------------------------|------------|--|-------|
| Name of substance | Identifier | Wt% | Classification acc. to GHS | Notes |
| Hydrocarbons, C13-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics | CAS No 64742-47-8 | ≤ 5.368 | Asp. Tox. 1 / H304 | |
| Undecyl glucoside | CAS No 98283-67-1 | 1.33 - < 4 | Skin Irrit. 2 / H315 Eye Dam. 1 / H318 | |
| Cyclosilazanes, di-Me, Me Hydrogen, polymers with di-Me, Me hydrogen silazanes, and 2,4-TDI | CAS No trade secret | < 4 | Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Flam. Liq. 2 / H225 | |
| tetra(trimethylsiloxy)silane | CAS No 3555-47-3 | < 0.1 | Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Flam. Liq. 4 / H227 | |
| methanol | CAS No 67-56-1 | < 0.02 | Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 3 / H331 STOT SE 1 / H370 Flam. Liq. 2 / H225 | |

For full text of abbreviations: see SECTION 16.

This table, if present, includes all GHS classified ingredients present above their cut-off limits, even if the finished product is not classified as hazardous by GHS.

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none



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SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray. BC-powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media

Water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NO_x). Carbon monoxide (CO). Carbon dioxide (CO₂).

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). collect spillage

sawdust

kieselgur (diatomite)

sand

universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feed-stuffs.



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7.2 Conditions for safe storage, including any incompatibilities

Control of the effects

Protect against external exposure, such as

frost

General rule

Do not use for squirting or spraying.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Occupational exposure limit values (Workplace Exposure Limits) | | | | | | | | | | | |
|--|---------------------------|---------|------------|------------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|------------------|
| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m ³] | STEL [ppm] | STEL [mg/m ³] | Ceiling-C [ppm] | Ceiling-C [mg/m ³] | Notation | Source |
| US | methanol | 67-56-1 | TLV® | 200 | | 250 | | | | H | ACGIH® 2019 |
| US | methyl alcohol | 67-56-1 | REL | 200 (10 h) | 260 (10 h) | 250 | 325 | | | | NIOSH REL |
| US | methyl alcohol | 67-56-1 | PEL | 200 | 260 | | | | | | 29 CFR 1910.1000 |
| US | methyl alcohol (methanol) | 67-56-1 | PEL (CA) | 200 | 260 | 250 | 325 | 1,000 | | | Cal/OSHA PEL |

Notation

- Ceiling-C Ceiling value is a limit value above which exposure should not occur
- H Absorbed through the skin
- STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
- TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

| Biological limit values | | | | | | |
|-------------------------|---------------|-----------|----------|------------|---------|-------------|
| Country | Name of agent | Parameter | Notation | Identifier | Value | Source |
| US | methanol | methanol | | BEI® | 15 mg/l | ACGIH® 2019 |

| Relevant DNELs of components of the mixture | | | | | | |
|---|------------|----------|-------------------------|------------------------------------|-------------------|----------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| Undecyl glucoside | 98283-67-1 | DNEL | 70.53 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |



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| Relevant DNELs of components of the mixture | | | | | | |
|---|------------|-----------|-----------------------|------------------------------------|-------------------|----------------------------|
| Name of substance | CAS No | End-point | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| Undecyl glucoside | 98283-67-1 | DNEL | 100,000 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| methanol | 67-56-1 | DNEL | 130 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| methanol | 67-56-1 | DNEL | 130 mg/m ³ | human, inhalatory | worker (industry) | acute - systemic effects |
| methanol | 67-56-1 | DNEL | 130 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| methanol | 67-56-1 | DNEL | 130 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| methanol | 67-56-1 | DNEL | 20 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| methanol | 67-56-1 | DNEL | 20 mg/kg bw/day | human, dermal | worker (industry) | acute - systemic effects |

| Relevant PNECs of components of the mixture | | | | | | |
|---|------------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
| Undecyl glucoside | 98283-67-1 | PNEC | 0.176 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Undecyl glucoside | 98283-67-1 | PNEC | 0.018 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Undecyl glucoside | 98283-67-1 | PNEC | 10.2 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Undecyl glucoside | 98283-67-1 | PNEC | 0.902 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Undecyl glucoside | 98283-67-1 | PNEC | 0.09 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Undecyl glucoside | 98283-67-1 | PNEC | 0.654 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| methanol | 67-56-1 | PNEC | 100 mg/l | microorganisms | sewage treatment plant (STP) | short-term (single instance) |
| methanol | 67-56-1 | PNEC | 77 mg/kg | benthic organisms | sediment | short-term (single instance) |
| methanol | 67-56-1 | PNEC | 7.7 mg/kg | pelagic organisms | sediment | short-term (single instance) |
| methanol | 67-56-1 | PNEC | 1,540 mg/l | aquatic organisms | water | intermittent release |
| methanol | 67-56-1 | PNEC | 20.8 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| methanol | 67-56-1 | PNEC | 2.08 mg/l | aquatic organisms | marine water | short-term (single instance) |
| methanol | 67-56-1 | PNEC | 100 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |



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| Relevant PNECs of components of the mixture | | | | | | |
|---|---------|-----------|-----------------|-----------------------|---------------------------|------------------------------|
| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
| methanol | 67-56-1 | PNEC | 77 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| methanol | 67-56-1 | PNEC | 7.7 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| methanol | 67-56-1 | PNEC | 100 mg/kg | terrestrial organisms | soil | short-term (single instance) |

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | |
|----------------|------------------------|
| Physical state | Liquid |
| Color | Grey |
| Particle | Not relevant Liquid |
| Odor | Fruity |

Other safety parameters

| | |
|---|-------------------|
| PH (value) | 5.5 – 6.5 (25 °C) |
| Melting point/freezing point | Not determined |
| Initial boiling point and boiling range | >65 °C at 1 atm |
| Flash point | Will not flash |



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| | |
|----------------------------------|--|
| Evaporation rate | Not determined |
| Flammability (solid, gas) | Not relevant Fluid |
| Vapor pressure | 31.69 hPa at 25 °C |
| Density | 1.01 – 1.02 g/cm ³ at 25 °C |
| Vapor density | This information is not available |
| Solubility(ies) | Not determined |
| Partition coefficient | |
| - n-octanol/water (log KOW) | This information is not available |
| Auto-ignition temperature | Not determined |
| Viscosity | |
| Kinematic viscosity | 245.1 mm ² /s at 25 °C |
| Dynamic viscosity | 250 mPa s at 25 °C |
| Explosive properties | None |
| Oxidizing properties | None |
| 9.2 Other information | There is no additional information |

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidizers.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Shall not be classified as acutely toxic.

| Acute toxicity estimate (ATE) of components of the mixture | | | |
|---|--------------|-----------------------|-------------|
| Name of substance | CAS No | Exposure route | ATE |
| Cyclosilazanes, di-Me, Me Hydrogen, polymers with di-Me, Me hydrogen silazanes, and 2,4-TDI | trade secret | oral | 500 mg/kg |
| methanol | 67-56-1 | oral | 100 mg/kg |
| methanol | 67-56-1 | inhalation: gas | 700 ppmV/4h |
| methanol | 67-56-1 | inhalation: dust/mist | 0.5 mg/l/4h |

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.



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12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number

Not subject to transport regulations

14.2 UN proper shipping name

Not relevant

14.3 Transport hazard class(es)

Not assigned

14.4 Packing group

Not relevant

14.5 Environmental hazards

Non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

There is no additional information.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

Transport of dangerous goods by road or rail (49 CFR US DOT)Additional information

Not subject to transport regulations.

International Maritime Dangerous Goods Code (IMDG)Additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)Additional information

Not subject to ICAO-IATA.



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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Superfund Amendment and Reauthorization Act (SARA TITLE III)

The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

Specific Toxic Chemical Listings (EPCRA Section 313)

| Toxics Release Inventory: Specific Toxic Chemical Listings | | | |
|--|---------|---------|----------------|
| Name of substance | CAS No | Remarks | Effective date |
| methanol | 67-56-1 | | 1986-12-31 |

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

| Name of substance | CAS No | Remarks | Statutory code | Final RQ pounds (Kg) |
|-------------------|---------|---------|----------------|----------------------|
| methanol | 67-56-1 | | 3 4 | 5000 (2270) |

Legend

3 "3" indicates that the source is section 112 of the Clean Air Act

4 "4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA)

Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List

Cleaning Product Right to Know Act Substance List (CA-RTK)

| Name of substance | CAS No | Functionality | Authoritative Lists |
|---|--------------|--------------------|---------------------|
| water | 7732-18-5 | solvent | |
| polydimethylsiloxane | 63148-62-9 | surface modifier | |
| Undecyl glucoside | | surfactant | |
| Poly(ethylene glycol-ran-propylene glycol) monobutyl ether | 9038-95-3 | surfactant | |
| polyacrylamide | 9003-05-8 | viscosity modifier | |
| polytrimethylhydrosilylsiloxane | 68988-56-7 | surface modifier | |
| Hydrocarbons, C13-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics | 64742-47-8 | solvents | |
| Cyclosilazanes, di-Me, Me Hydrogen, polymers with di-Me, Me hydrogen silazanes, and 2,4-TDI | trade secret | refractory resin | |
| Alkyl Polysilicates | Trade Secret | resin | |
| alcohols, C12-14 secondary, ethoxylated | 84133-50-6 | surfactant | |
| Graphene | 7782-42-5 | surface modifier | |
| Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy-Ethane-1,2-diol, ethoxylated | 25322-68-3 | surfactant | |



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| Name of substance | CAS No | Functionality | Authoritative Lists |
|------------------------------|-----------|------------------|---|
| Geraniol | 106-24-1 | fragrance | EU Fragrance Allergens |
| tetra(trimethylsiloxy)silane | 3555-47-3 | surface modifier | Canada PBiTs |
| methanol | 67-56-1 | alcohols | CA TACs NTP OHAT - Repr. or Dev. Toxicants OEHA RELs Prop 65 |

Toxic or Hazardous Substance List (MA-TURA)

| Name of substance | CAS No | DEP CODE | PBT / HHS / LHS | PBT / HHS Threshold | De Minimis Concentration Threshold |
|-------------------|---------|----------|-----------------|---------------------|------------------------------------|
| methanol | 67-56-1 | | | | 1.0 % |

Hazardous Substance List (NJ-RTK)

| Name of substance | CAS No | Remarks | Classifications |
|-------------------|---------|---------|-----------------|
| methanol | 67-56-1 | | TE F3 |

Legend

F3 Flammable - Third Degree
TE Teratogenic

Hazardous Substance List (RI-RTK)

| Name of substance | CAS No | References |
|-------------------|---------|------------|
| methanol | 67-56-1 | T, F |

Legend

F Flammability (NFPA®)
T Toxicity (ACGIH®)

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

| Proposition 65 List of chemicals | | | | |
|----------------------------------|-----------|----------|--|----------------------|
| Name acc. to inventory | CAS No | Wt% | Remarks | Type of the toxicity |
| methanol | 67-56-1 | 0.001705 | | developmental |
| carbon black | 1333-86-4 | 0.0002 | airborne, unbound particles of respirable size | cancer |

VOC content

Regulated Volatile Organic Compounds (VOC-EPA) 0.03279 %
Regulated Volatile Organic Compounds (VOC-Cal ARB) 0.03279 %

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.



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| Category | Rating | Description |
|---------------------|--------|--|
| Chronic | * | chronic (long-term) health effects may result from repeated overexposure |
| Health | 2 | temporary or minor injury may occur |
| Flammability | 1 | material that must be preheated before ignition can occur |
| Physical hazard | 0 | material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive |
| Personal protection | - | |

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

| Category | Degree of hazard | Description |
|----------------|------------------|---|
| Flammability | 1 | material that must be preheated before ignition can occur |
| Health | 0 | material that, under emergency conditions, would offer no hazard beyond that of ordinary combustible material |
| Instability | 0 | material that is normally stable, even under fire conditions |
| Special hazard | | |

National inventories

| Country | Inventory | Status |
|---------|------------|--------------------------------|
| CA | DSL | not all ingredients are listed |
| EU | REACH Reg. | not all ingredients are listed |
| US | TSCA | not all ingredients are listed |
| AU | AICS | not all ingredients are listed |
| CN | IECSC | not all ingredients are listed |
| EU | ECSI | not all ingredients are listed |
| JP | CSCL-ENCS | not all ingredients are listed |
| JP | ISHA-ENCS | not all ingredients are listed |
| KR | KECI | not all ingredients are listed |
| MX | INSQ | not all ingredients are listed |
| NZ | NZIoC | not all ingredients are listed |
| PH | PICCS | not all ingredients are listed |
| TR | CICR | not all ingredients are listed |
| TW | TCSI | not all ingredients are listed |

Legend

| | |
|-----------|---|
| AICS | Australian Inventory of Chemical Substances |
| CICR | Chemical Inventory and Control Regulation |
| CSCL-ENCS | List of Existing and New Chemical Substances (CSCL-ENCS) |
| DSL | Domestic Substances List (DSL) |
| ECSI | EC Substance Inventory (EINECS, ELINCS, NLP) |
| IECSC | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ | National Inventory of Chemical Substances |
| ISHA-ENCS | Inventory of Existing and New Chemical Substances (ISHA-ENCS) |



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| | |
|------------|---|
| KECI | Korea Existing Chemicals Inventory |
| NZIoC | New Zealand Inventory of Chemicals |
| PICCS | Philippine Inventory of Chemicals and Chemical Substances (PICCS) |
| REACH Reg. | REACH registered substances |
| TCSI | Taiwan Chemical Substance Inventory |
| TSCA | Toxic Substance Control Act |

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information, including date of preparation or last revision

Indication of changes (revised safety data sheet)

Alignment to regulation. Globally Harmonized System of Classification and Labelling of Chemicals ("Purple book").

Restructuring: section 9, section 14

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|------------------|--|
| 29 CFR 1910.1000 | 29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits) |
| 49 CFR US DOT | 49 CFR U.S. Department of Transportation |
| ACGIH® | American Conference of Governmental Industrial Hygienists |
| ACGIH® 2019 | From ACGIH®, 2019 TLVs® and BEIs® Book. Copyright 2019. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement |
| Acute Tox. | Acute toxicity |
| Asp. Tox. | Aspiration hazard |
| ATE | Acute Toxicity Estimate |
| Cal/OSHA PEL | California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs) |
| Cal ARB | California Air Resources Board |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| Ceiling-C | Ceiling value |
| DEP CODE | Department of Environmental Protection Code |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DNEL | Derived No-Effect Level |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| EPA | Environmental Protection Agency. An agency of the federal government of the United States charged with protecting human health and the environment |
| Eye Dam. | Seriously damaging to the eye |
| Eye Irrit. | Irritant to the eye |
| Flam. Liq. | Flammable liquid |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| HHS | Higher hazard substance |



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| Abbr. | Descriptions of used abbreviations |
|----------------|--|
| HS | Harmonized Commodity Description and Coding System (Harmonized System, drawn up by the World Customs Organisation) |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods Code |
| LHS | Lower hazard substance |
| MARPOL | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") |
| NFPA® | National Fire Protection Association (United States) |
| NIOSH REL | National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs) |
| NLP | No-Longer Polymer |
| NPCA-HMIS® III | National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition |
| OSHA | Occupational Safety and Health Administration (United States) |
| PBT | Persistent, Bioaccumulative and Toxic |
| PEL | Permissible exposure limit |
| PNEC | Predicted No-Effect Concentration |
| ppm | Parts per million |
| RTECS | Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information) |
| Skin Corr. | Corrosive to skin |
| Skin Irrit. | Irritant to skin |
| STEL | Short-term exposure limit |
| STOT SE | Specific target organ toxicity - single exposure |
| TLV® | Threshold Limit Values |
| TWA | Time-weighted average |
| VOC | Volatile Organic Compounds |
| vPvB | Very Persistent and very Bioaccumulative |

Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties. The classification is based on tested mixture.

Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).



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List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text |
|------|---|
| H225 | Highly flammable liquid and vapor. |
| H227 | Combustible liquid. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H370 | Causes damage to organs. |

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.